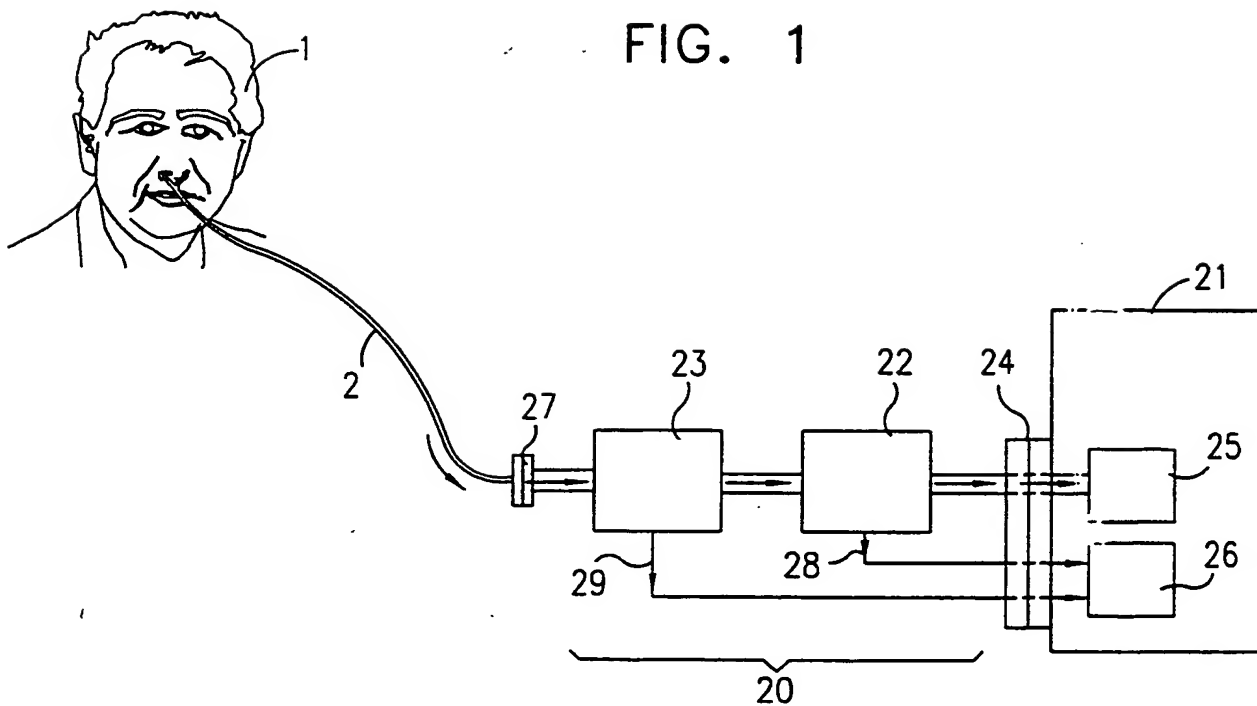


FIG. 1



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FIG. 2A

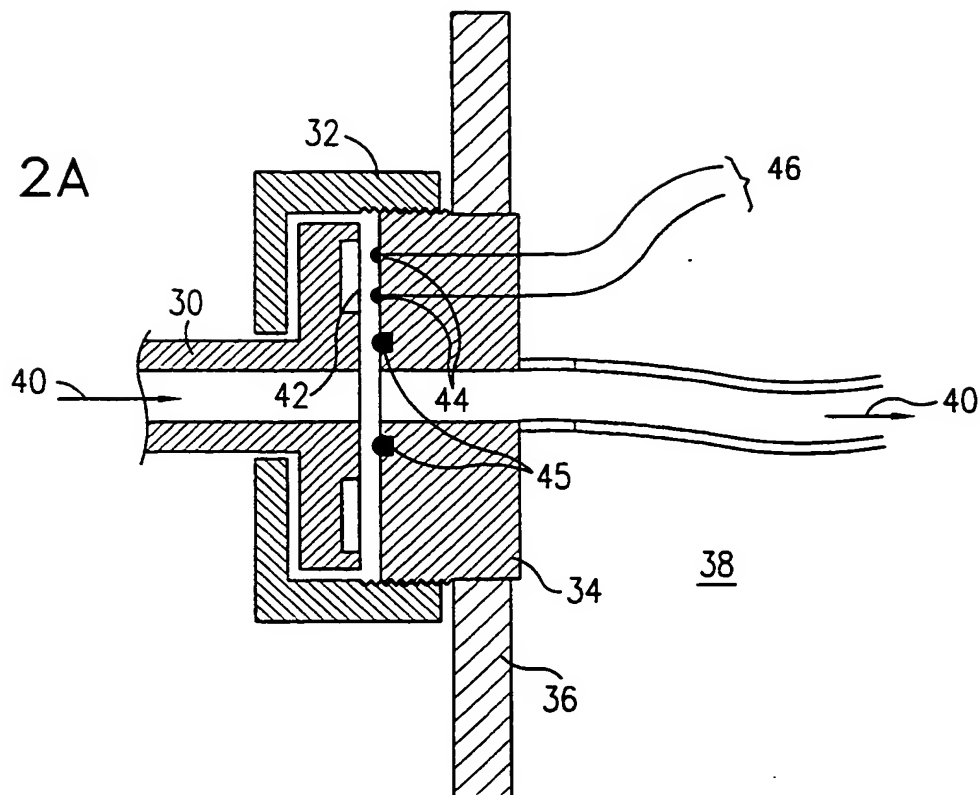
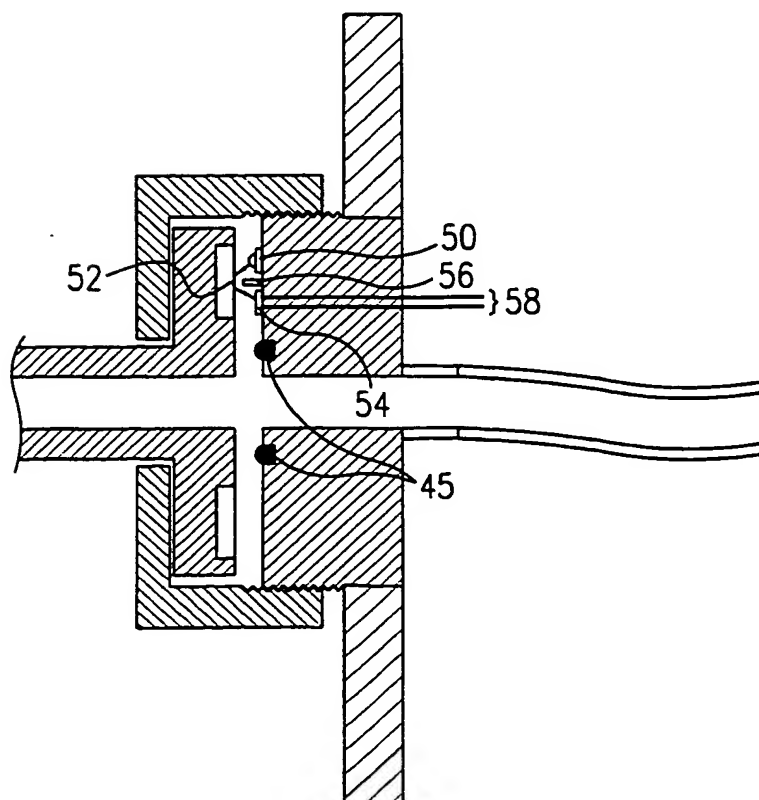
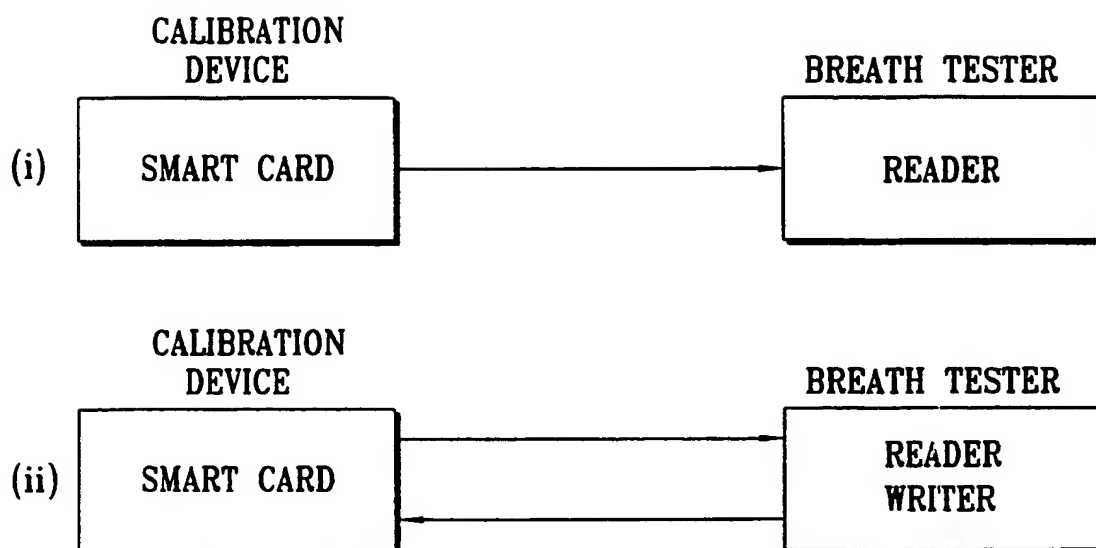


FIG. 2B



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FIG. 2C



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FIG. 3

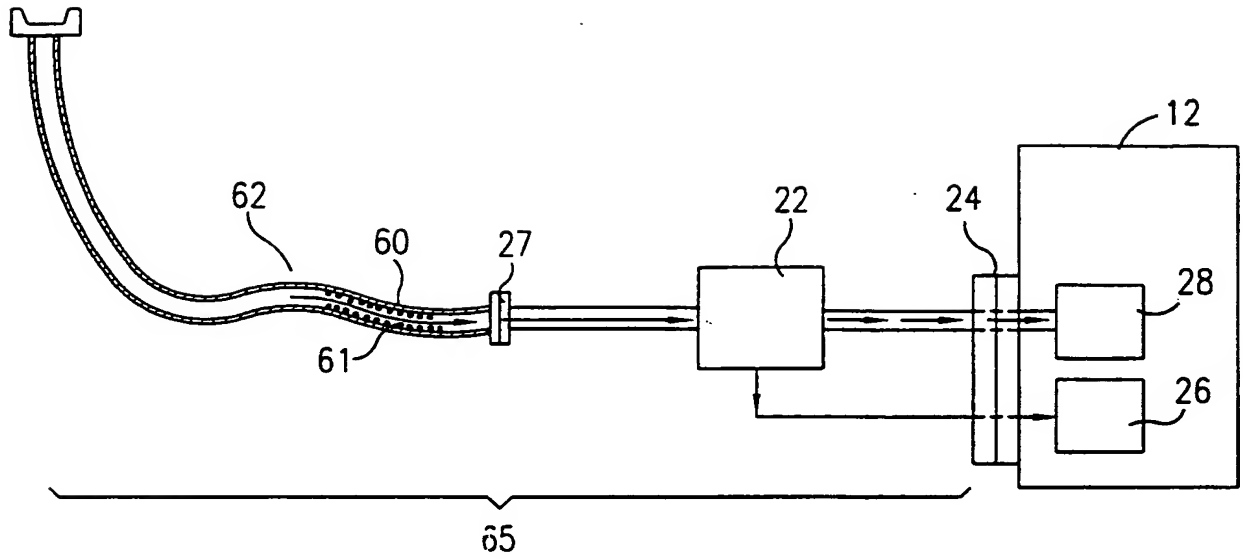
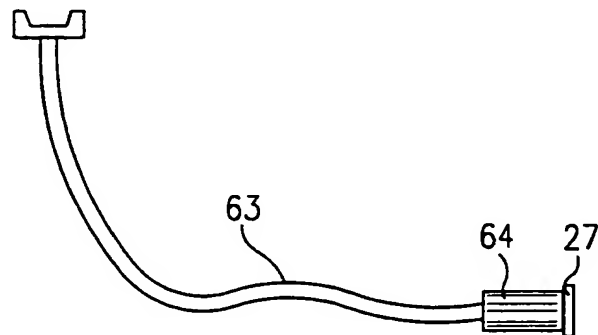
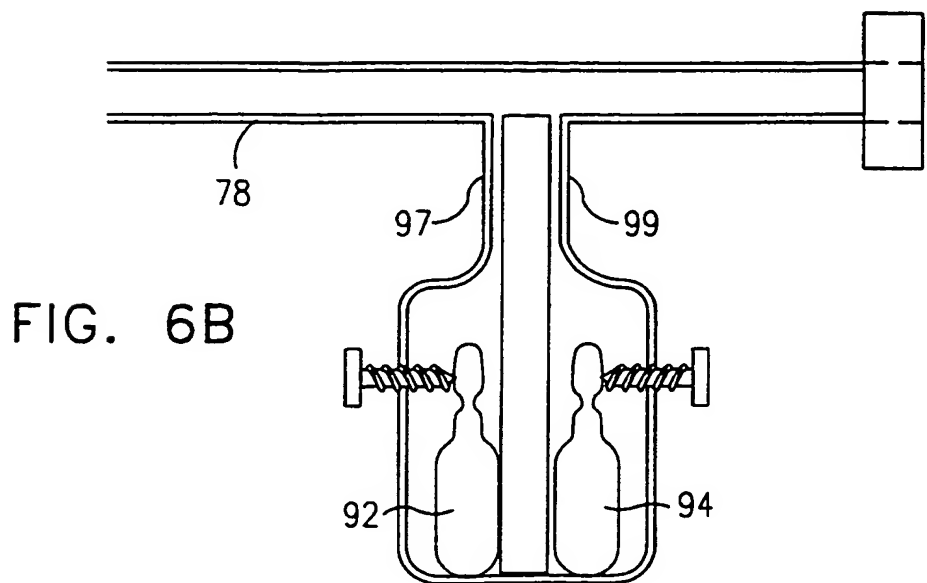
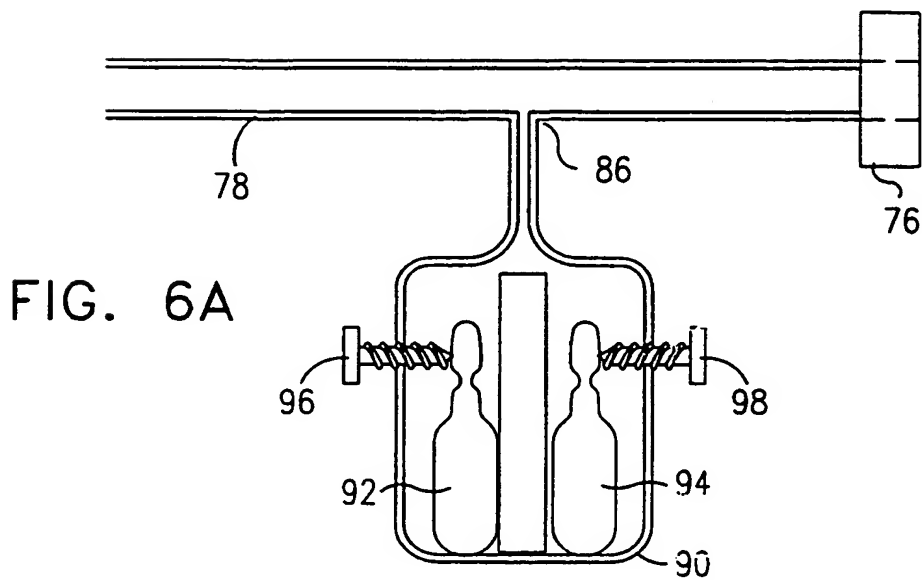
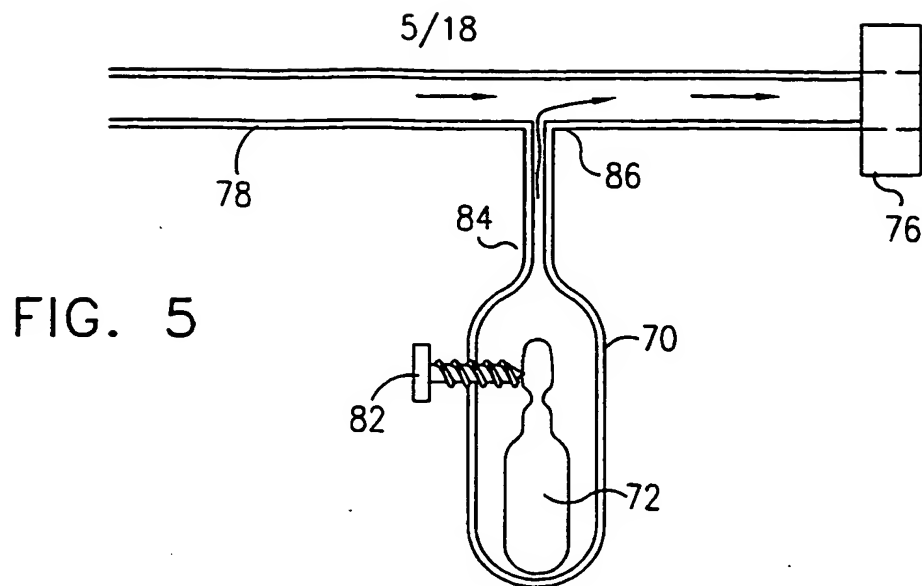


FIG. 4





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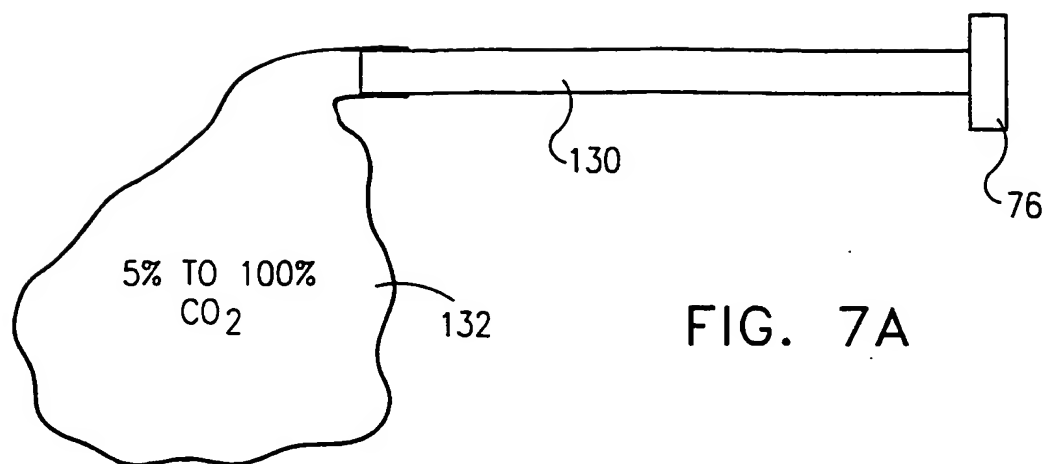


FIG. 7A

FIG. 7B

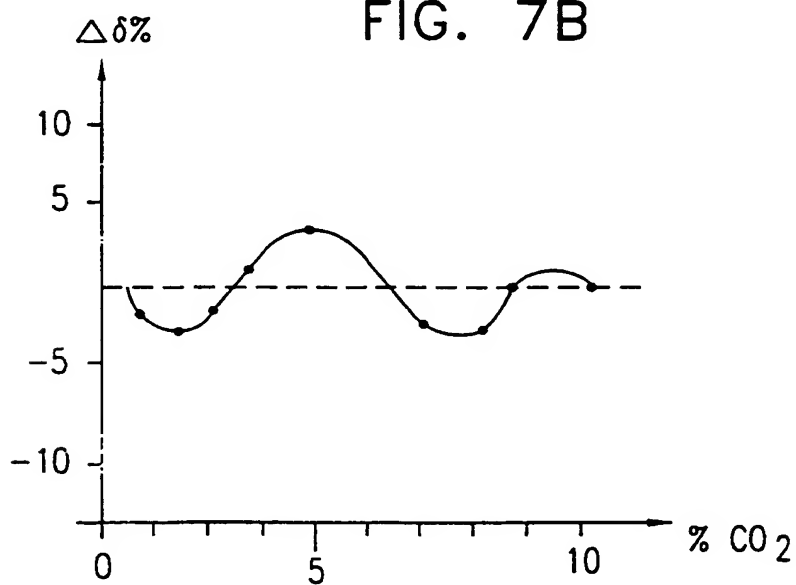
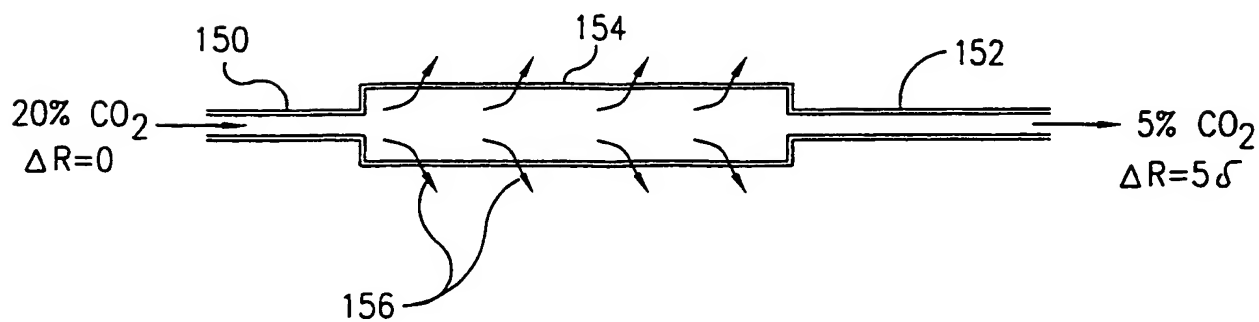
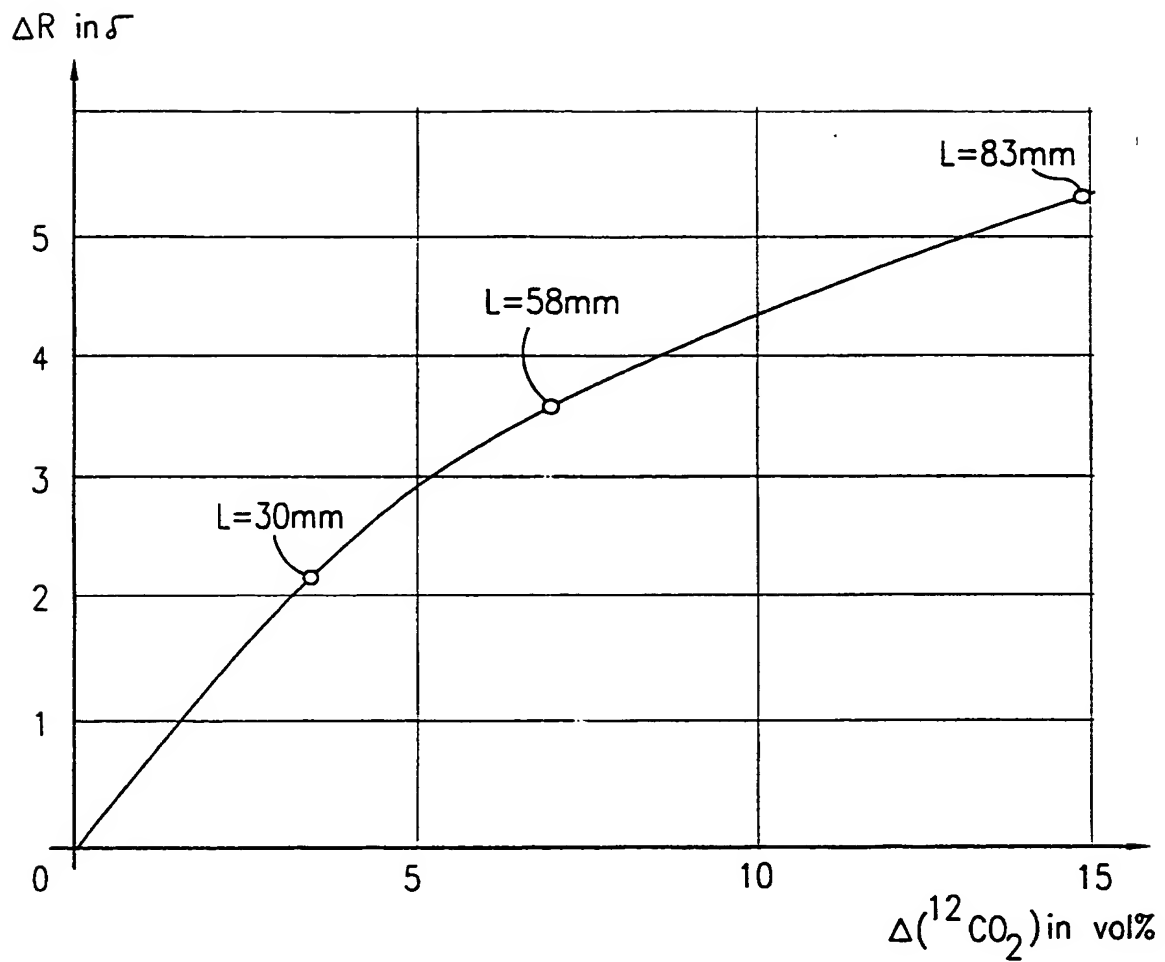


FIG. 8



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FIG. 9



$$\Delta(^{12}\text{CO}_2) = (^{12}\text{CO}_2)_{\text{in}} - (^{12}\text{CO}_2)_{\text{out}}$$

$$(^{12}\text{CO}_2)_{\text{out}} = 5\% = \text{constant}$$

$$Q = 250 \text{ ml/min} = \text{constant}$$

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FIG. 10

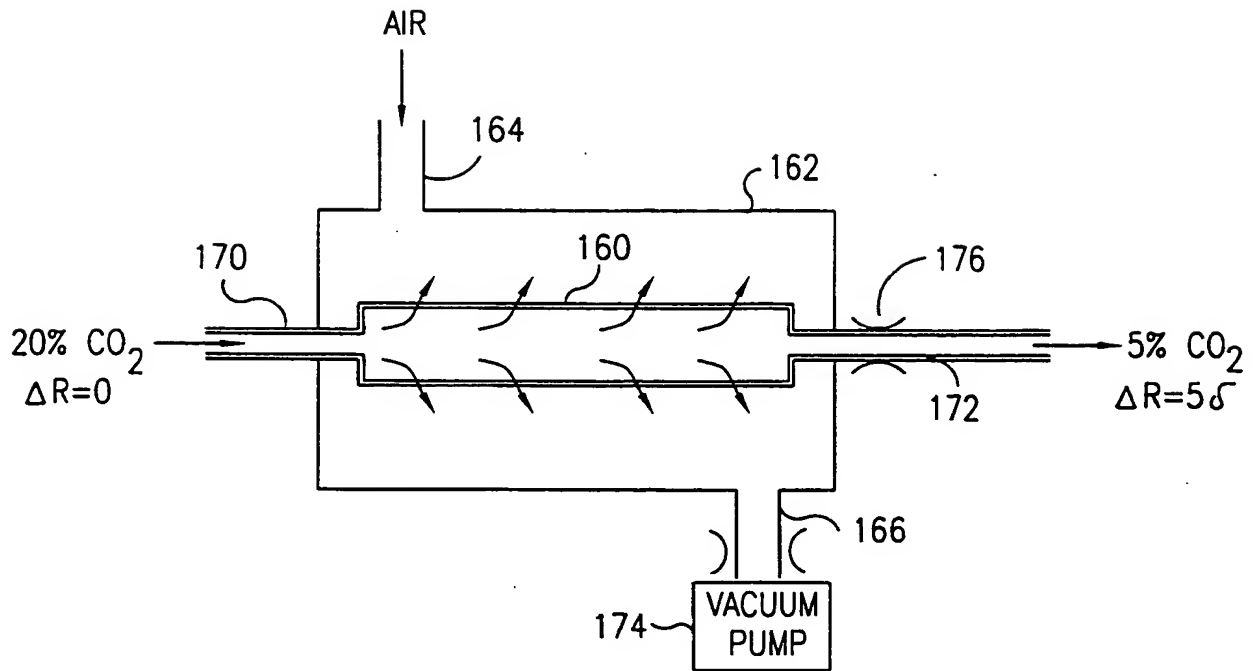


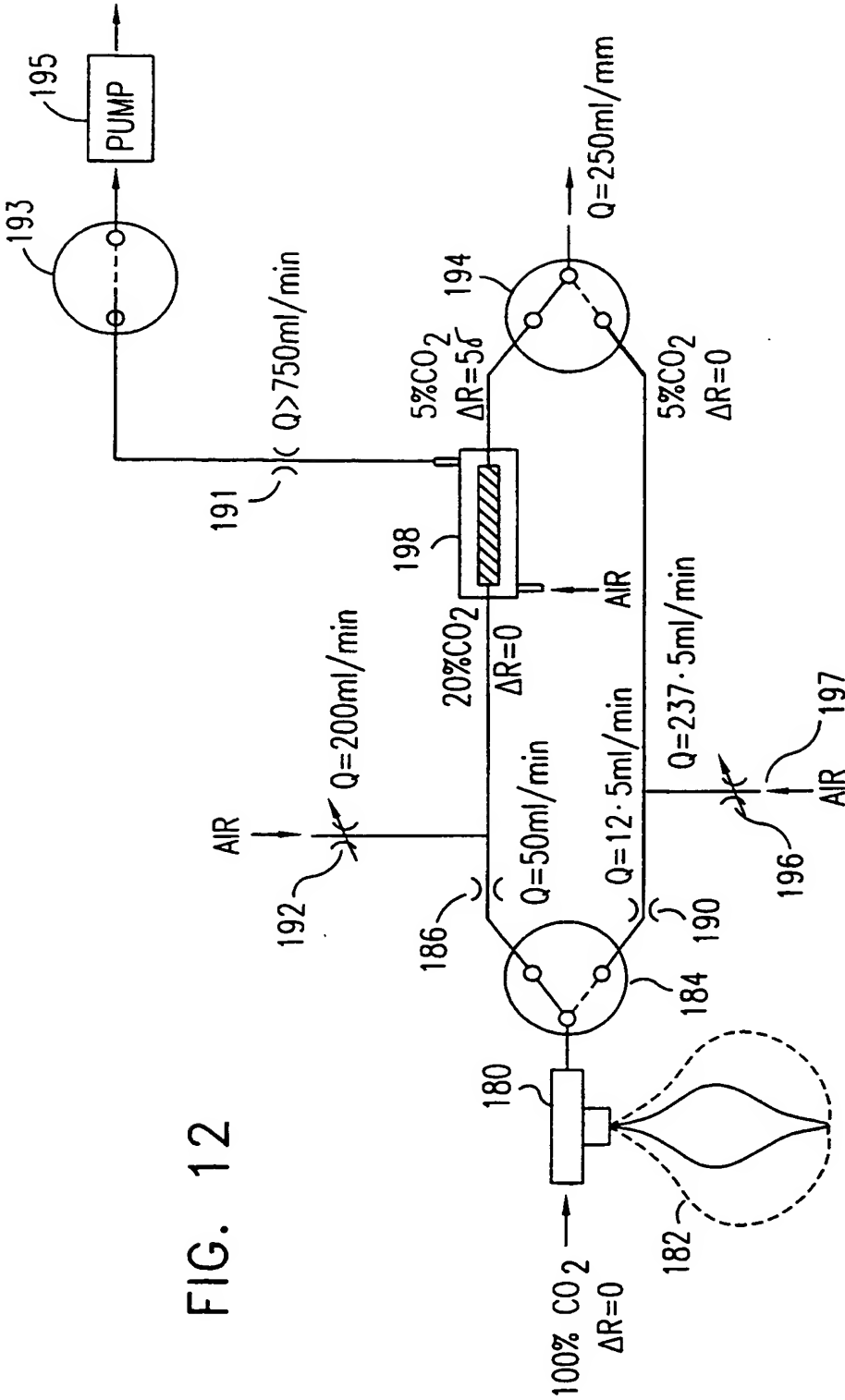


FIG. 11

The diagram illustrates a gas flow system for a combustor. The system components and flow parameters are as follows:

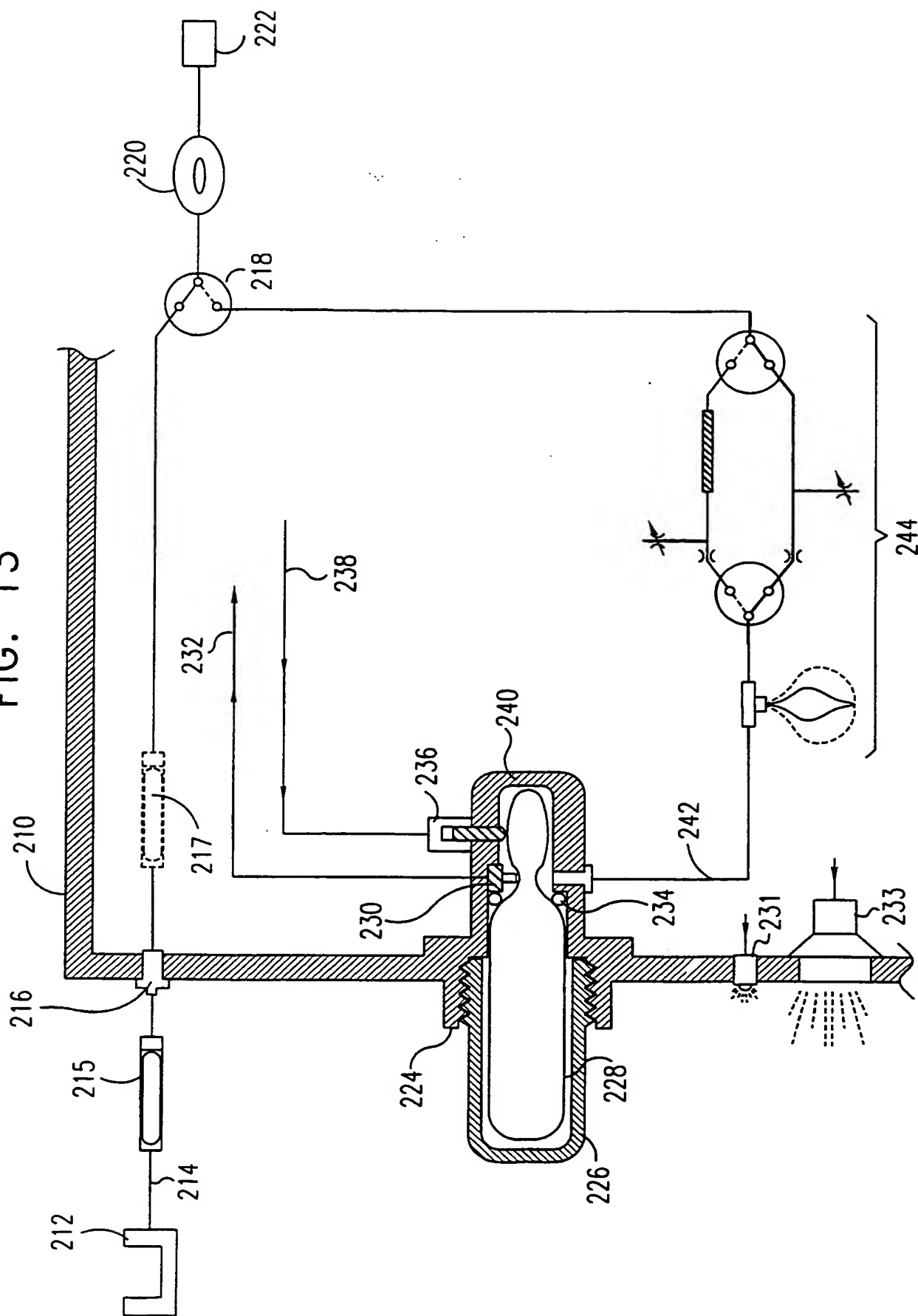
- 100% CO<sub>2</sub> Source (180):** Provides a gas stream with  $\Delta R=0$ .
- Flow Control Valve (186):** Controls the flow rate to  $Q=50$  ml/min.
- Combustor (182):** Receives the gas from the valve.
- Mixing Chamber (188):** Receives gas from the combustor and provides a mixture of  $20\% \text{CO}_2$  with  $\Delta R=0$ .
- Flow Control Valve (190):** Controls the flow rate to  $Q=12.5$  ml/min.
- Combustor (194):** Receives gas from the valve and provides a mixture of  $5\% \text{CO}_2$  with  $\Delta R=56$ .
- Flow Control Valve (196):** Controls the flow rate to  $Q=237.5$  ml/min.
- Air Source (197):** Provides a gas stream.
- Final Flow:** The system output is  $Q=250$  ml/min.

FIG. 12



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FIG. 13



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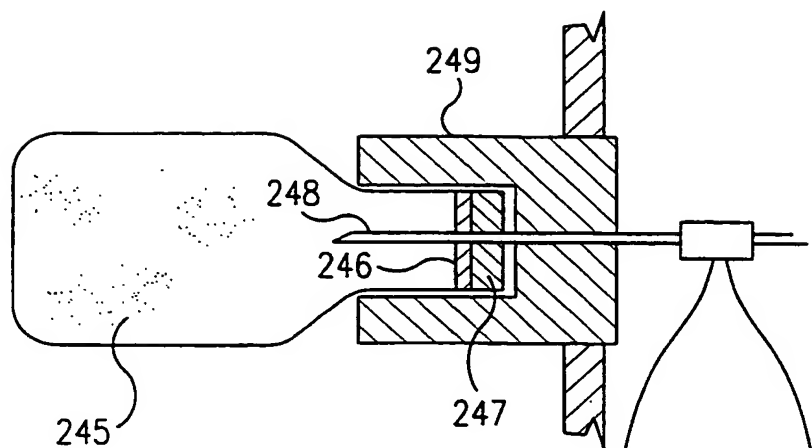


FIG. 14

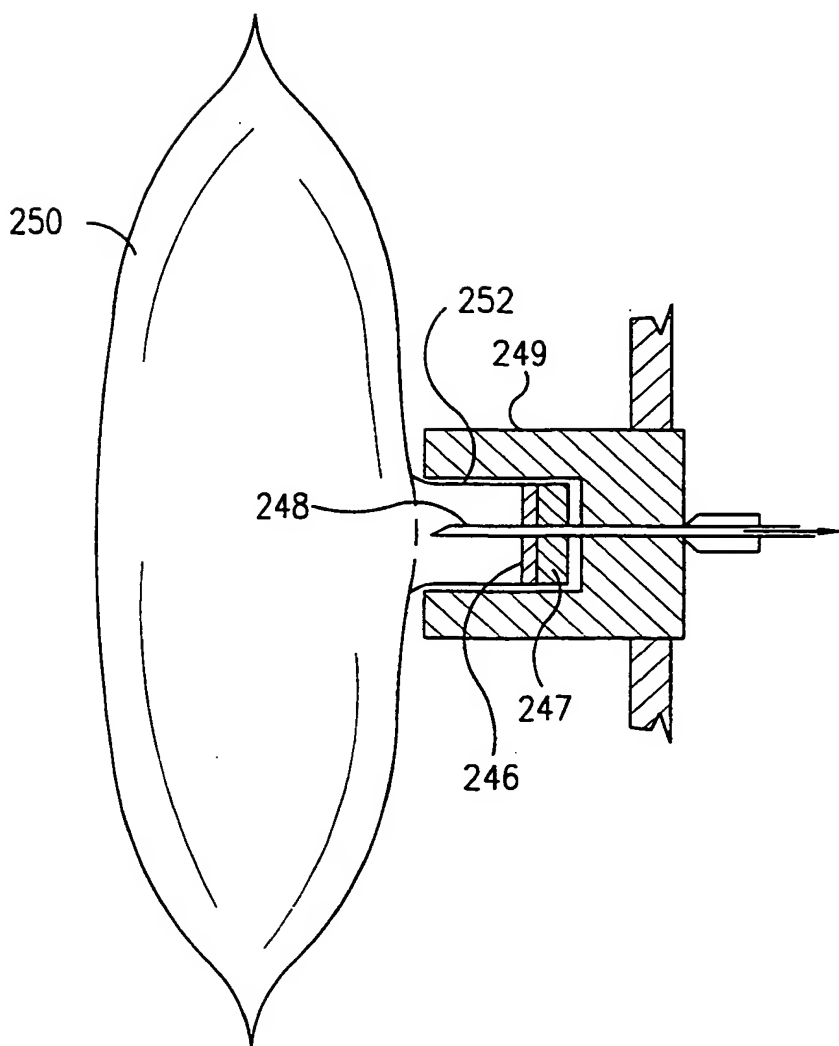


FIG. 15

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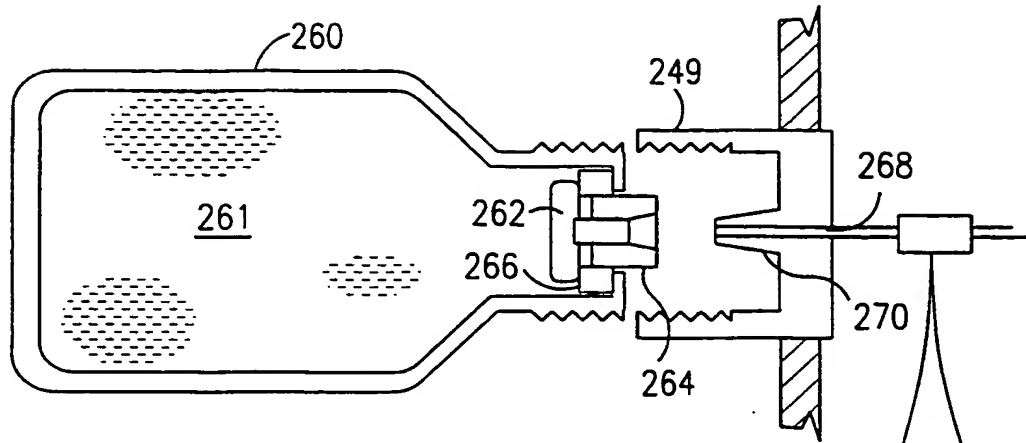


FIG. 16A

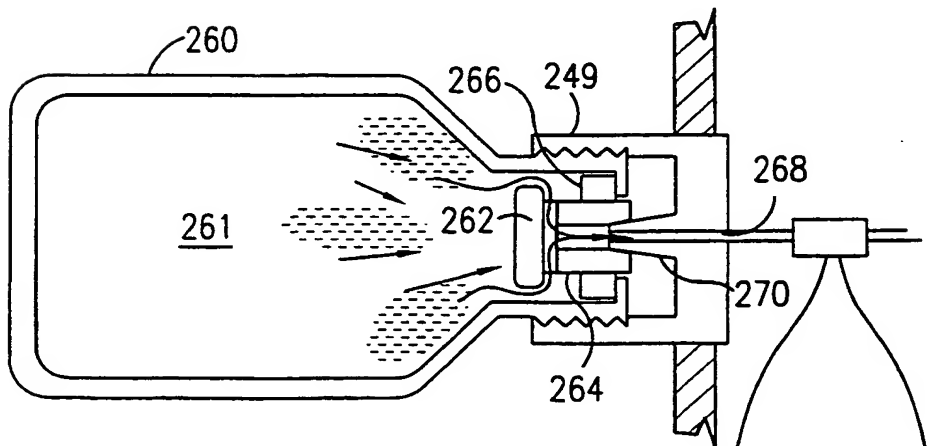
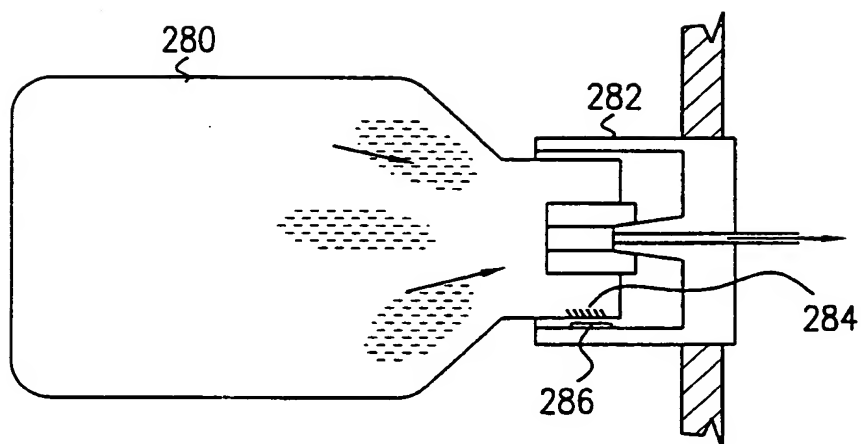


FIG. 16B

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FIG. 16C



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FIG. 17A

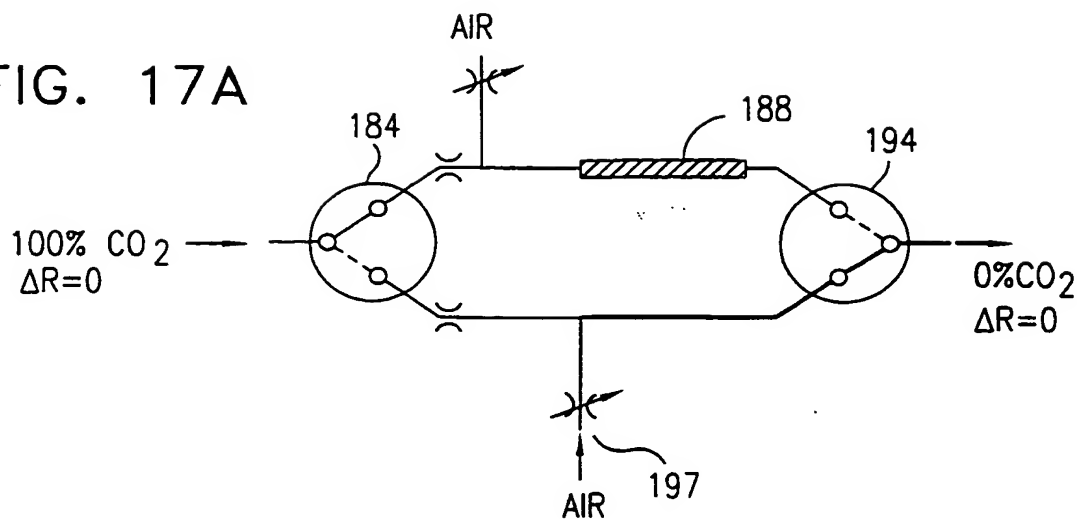


FIG. 17B

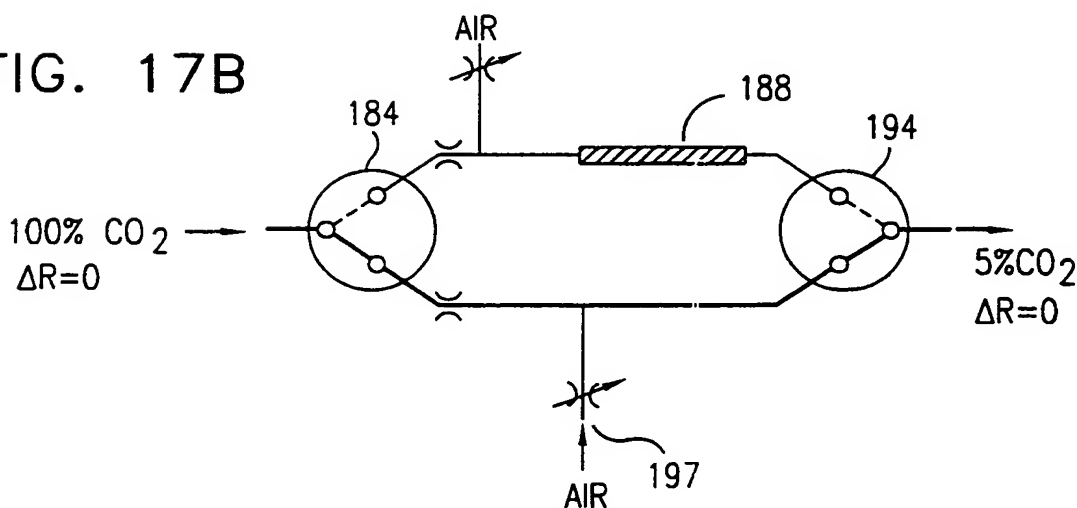


FIG. 17C

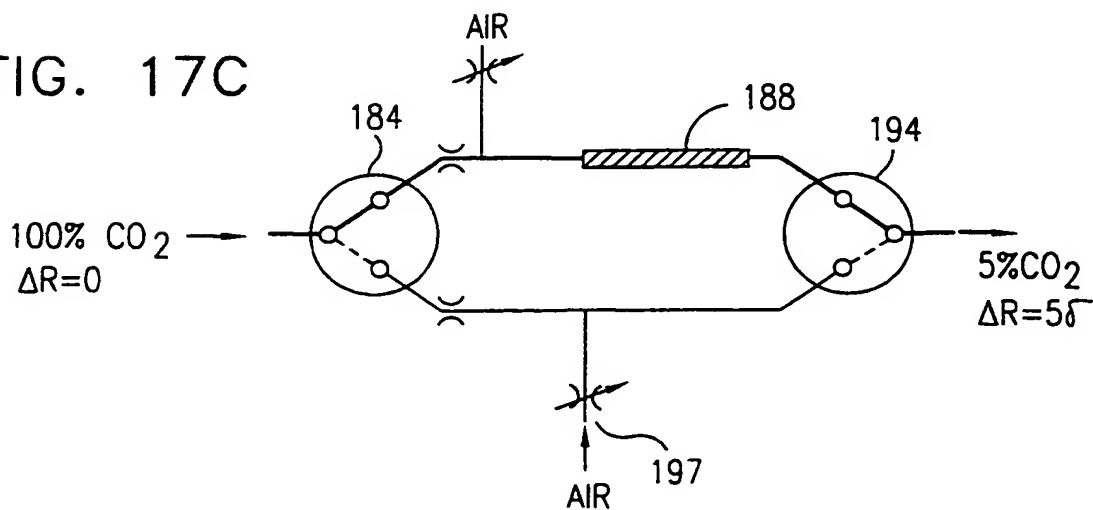
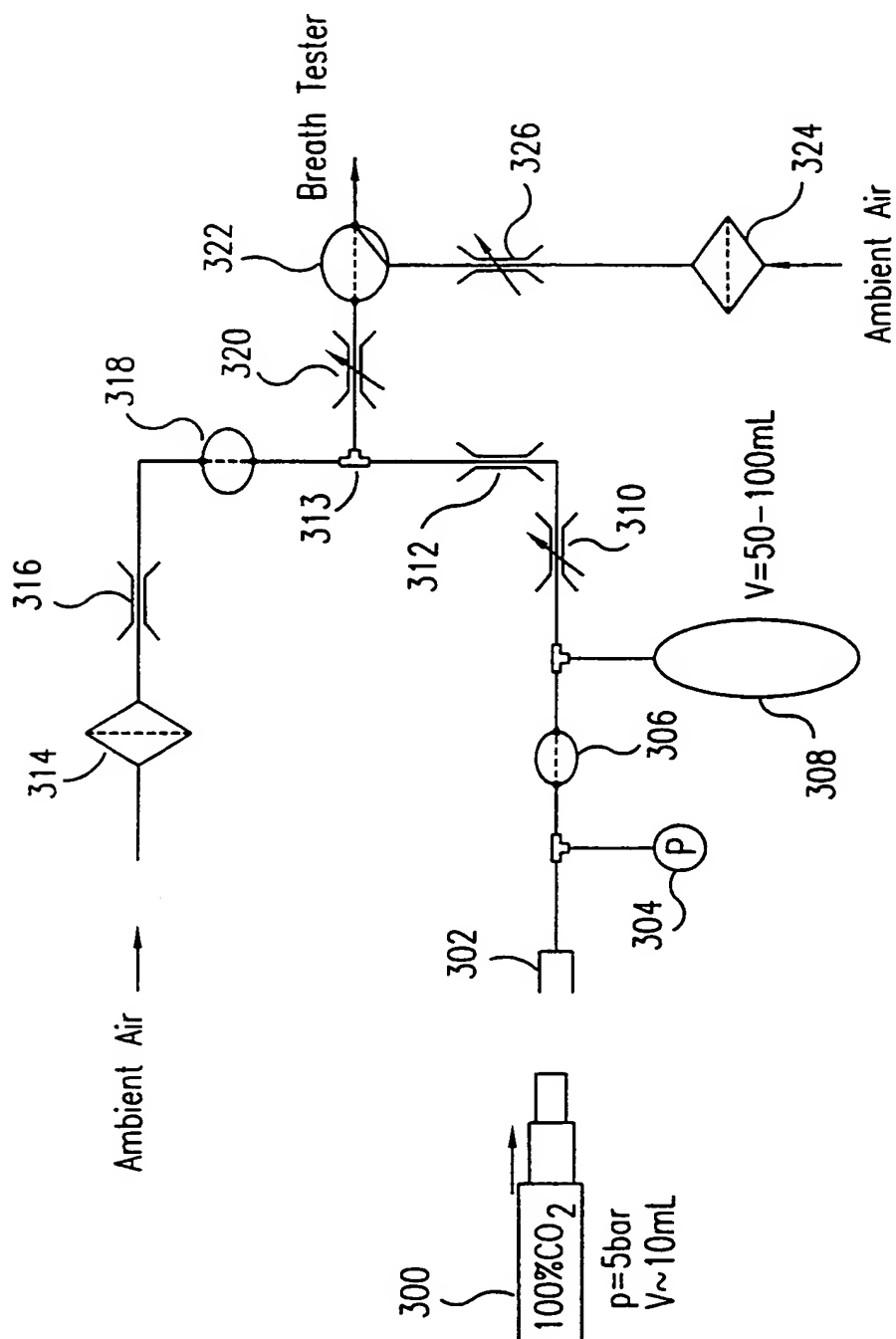
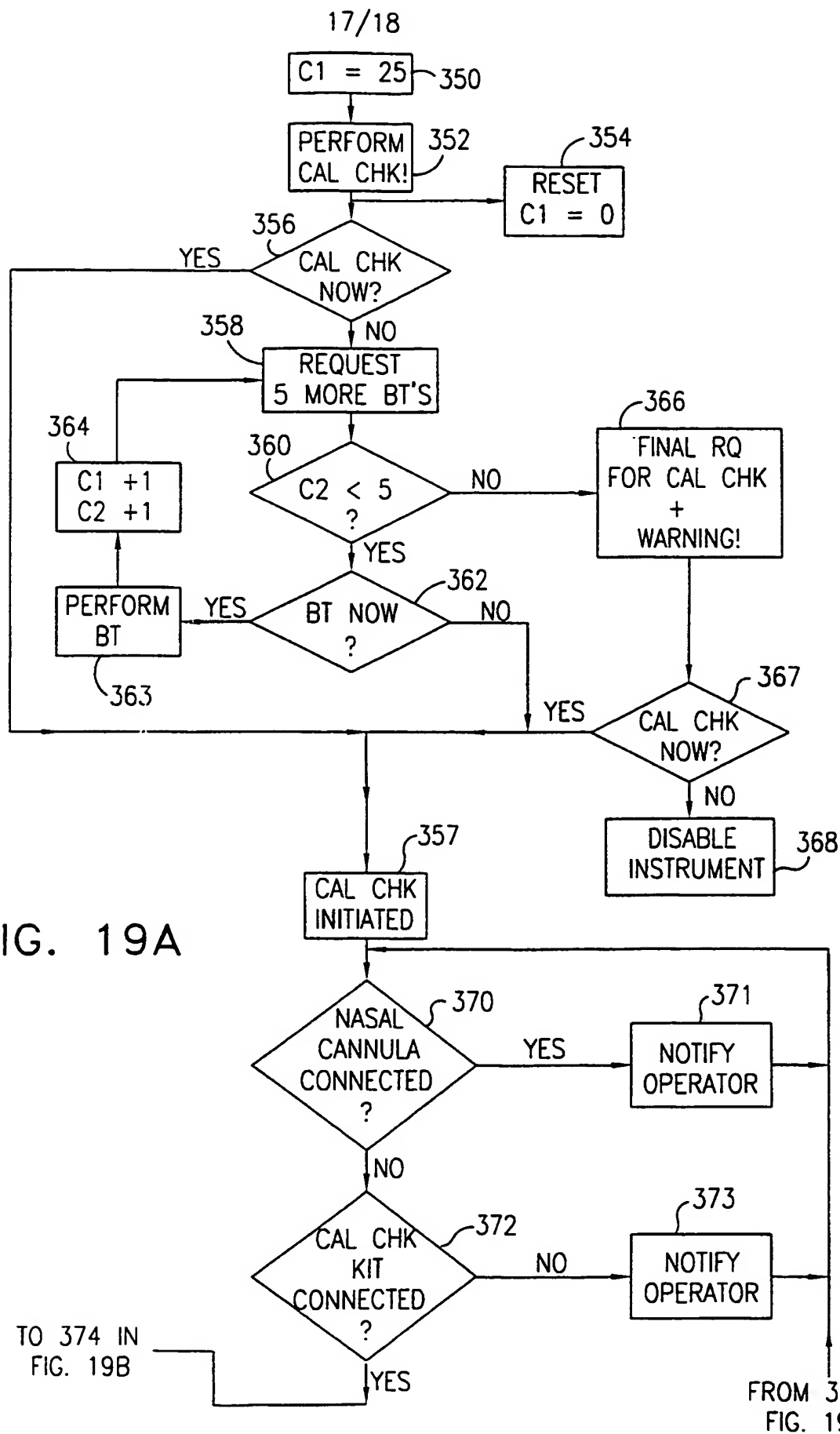


FIG. 18







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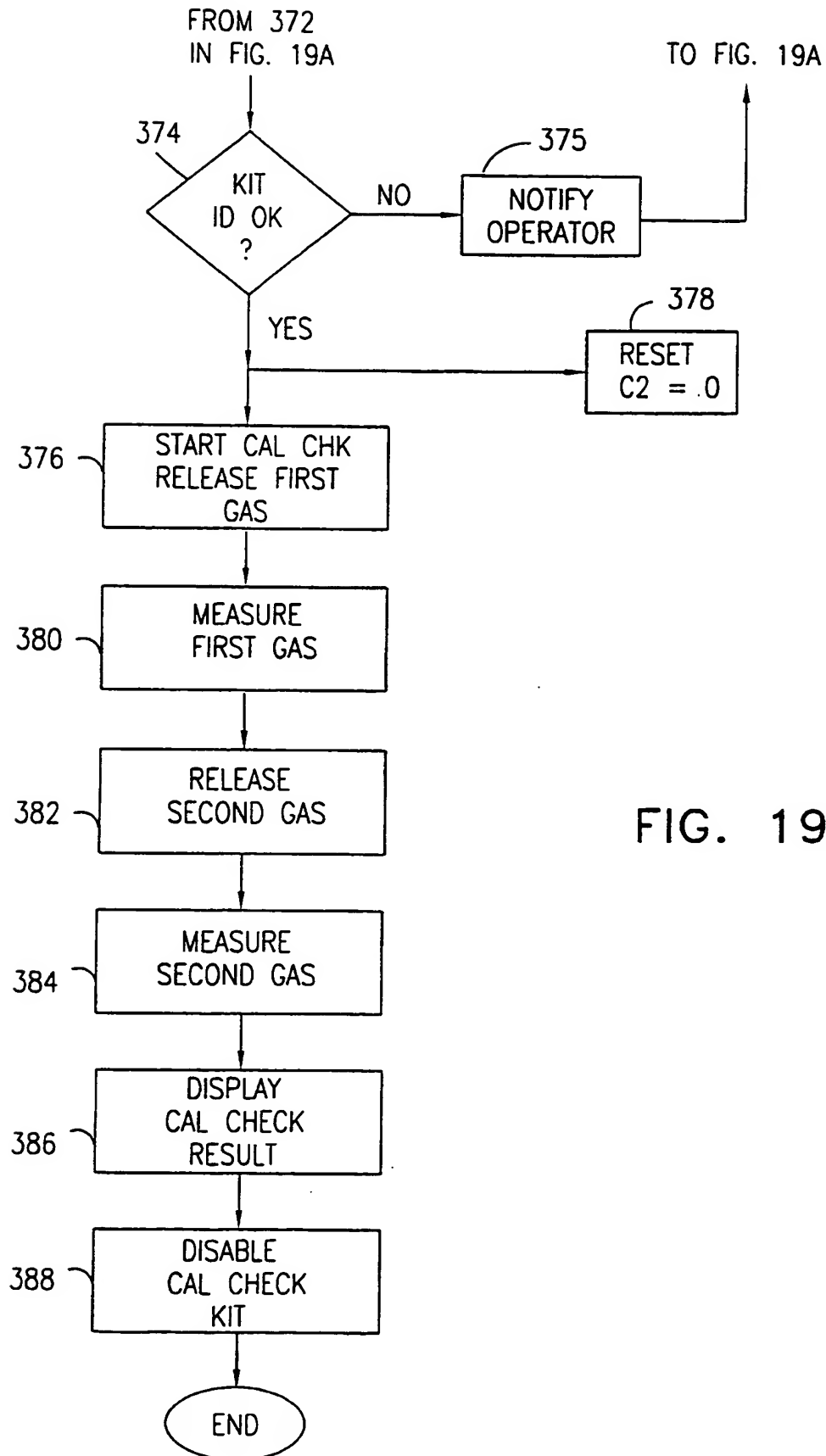


FIG. 19B